

BORDER REV. DATE: Mon0612720807

BY: SUSERNAMES

## PROJECT DESCRIPTION

### GENERAL

THIS PROJECT INVOLVES THE RECONSTRUCTION OF AN EXISTING TRAFFIC SIGNAL AT THE INTERSECTION OF MD 202 (LANDOVER ROAD) AND MD 295 (BALTIMORE/ WASHINGTON PKWY.) NORTHBOUND ON/OFF RAMP IN PRINCE GEORGE'S COUNTY.

MD 202 (LANDOVER ROAD) IS ASSUMED TO RUN IN AN EAST-WEST DIRECTION.

### INTERSECTION OPERATION

THE PROPOSED TRAFFIC SIGNAL SHALL HAVE A BASE MOUNTED CABINET AND MASTER/LOCAL CONTROLLER WITH ALL THE NECESSARY EQUIPMENT. THE INTERSECTION WILL OPERATE IN AFULLY-ACTUATED MODE USING 6 NEMA PHASES. THE MD 202 APPROACHES SHALLOPERATE CONCURRENTLY WITH WESTBOUND EXCLUSIVE/PERMISSIVE LEFT TURN PHASE.

VIDEO CAMERAS SHALL PROVIDE THE PRESENCE DETECTION; STREET NAME SIGNS SHALL BE UPDATED TO CURRENT STANDARDS. THE INTERSECTION HAS BEEN ADJUSTED TO BE ADA COMPLIANT.

### PROJECT CONTACTS:

#### 1. THE FOLLOWING CONTACT PERSONS FOR THIS PROJECT ARE AS FOLLOWS:

MS. FELECIA MURPHY, ASSISTANT DISTRICT ENGINEER - TRAFFIC  
PHONE: (301) 513-7409

MR. KEVIN NOWAK, ASSISTANT DISTRICT ENGINEER - CONSTRUCTION  
PHONE: (301) 513-7336

MR. VERNON STINNETT, ASSISTANT DISTRICT ENGINEER - MAINTENANCE  
PHONE: (310) 513-7304

MR. VICTOR GRAFTON, UTILITY ENGINEER  
PHONE: (310) 513-7350

MR. RICHARD DAFF, SR., CHIEF - TRAFFIC OPERATIONS DIVISION  
PHONE: (410) 787-7630

MR. EDWARD RODENHIZER, CHIEF - SIGNAL SHOP  
PHONE: (410) 787- 7652

MR. SONNY BAILEY, CHIEF - SIGN SHOP  
PHONE: (410) 787- 7676

THE POWER COMPANY REPRESENTATIVE:

POTOMAC ELECTRIC POWER COMPANY  
8300 OLD MARLBORO PIKE  
UPPER MARLBORO, MD 20772  
(301) 961-5325

#### 2. MAINTENANCE OF TRAFFIC WILL BE HANDLED BY THE CONTRACTOR UTILIZING THE STANDARD PLATES FOR TRAFFIC CONTROL FROM SECTION MD 104.00 OF THE STANDARDS FOR HIGHWAYS & INCIDENTAL STRUCTURES.

#### 3. CONTRACTOR TO NOTIFY MR. ED RODENHIZER, SIGNAL SHOP SUPERVISOR 72 HOURS IN ADVANCE BEFORE BEGINNING THE SIGNAL WORK.

## EQUIPMENT LIST 'C'

C. SHA FORCES SHALL REMOVE THE CONTROLLER AND ALL AUXILIARY EQUIPMENT FROM THE CONTROLLER CABINET. THE CABINET AND ALL OTHER MATERIALS TO BE REMOVED BY THE CONTRACTOR SHALL BECOME THE PROPERTY OF THE CONTRACTOR.

## EQUIPMENT LIST 'A'

### A. EQUIPMENT TO BE SUPPLIED BY THE ADMINISTRATION.

CATEGORY CODE NO.	DESCRIPTION	QUANTITY
900000	MASTER/LOCAL CONTROLLER AND CABINET SIZE 6 W/ ALL NECESSARY EQUIPMENT HOUSED IN A BASE MOUNTED CABINET	1 EA
900000	VIDEO DETECTION INTERFACE UNIT 1-4 CAMERAS	1 EA
900000	FLAT SHEET ALUMINUM SIGNS CONSISTING OF:	50 SF
1 EA	R3-5R (30"x36") "RIGHT ONLY" MAST ARM MOUNTED	
1 EA	R3-5L (30"x36") "LEFT ONLY" MAST ARM MOUNTED	
1 EA	R4-7 (30"x36") KEEP RIGHT (SYMBOL) GROUND MOUNTED	
2 EA	W11-2 (36"x36") PEDESTRIAN TRAFFIC (SYMBOL) GROUND MOUNTED	
2 EA	W16-7pL (30"x18") LEFT DIAGONAL ARROW PLAQUE GROUND MOUNTED	
1 EA	OM1-3 (18"x18") OBJECT MARKER GROUND MOUNTED	
	SHIELD ASSEMBLY SIGNS CONSISTING OF:	52 SF
1 EA	M4-5 (30"x15") POLE MOUNTED "TO"	
1 EA	M1-5(6) (30"x48") POLE MOUNTED "NORTH, MD 202, LEFT ARROW"	
1 EA	M1-5(4) (78"x36") MAST ARM MOUNTED "Landover Road", WEST(LEFT ARROW),MD 202,EAST (RIGHT ARROW)"	

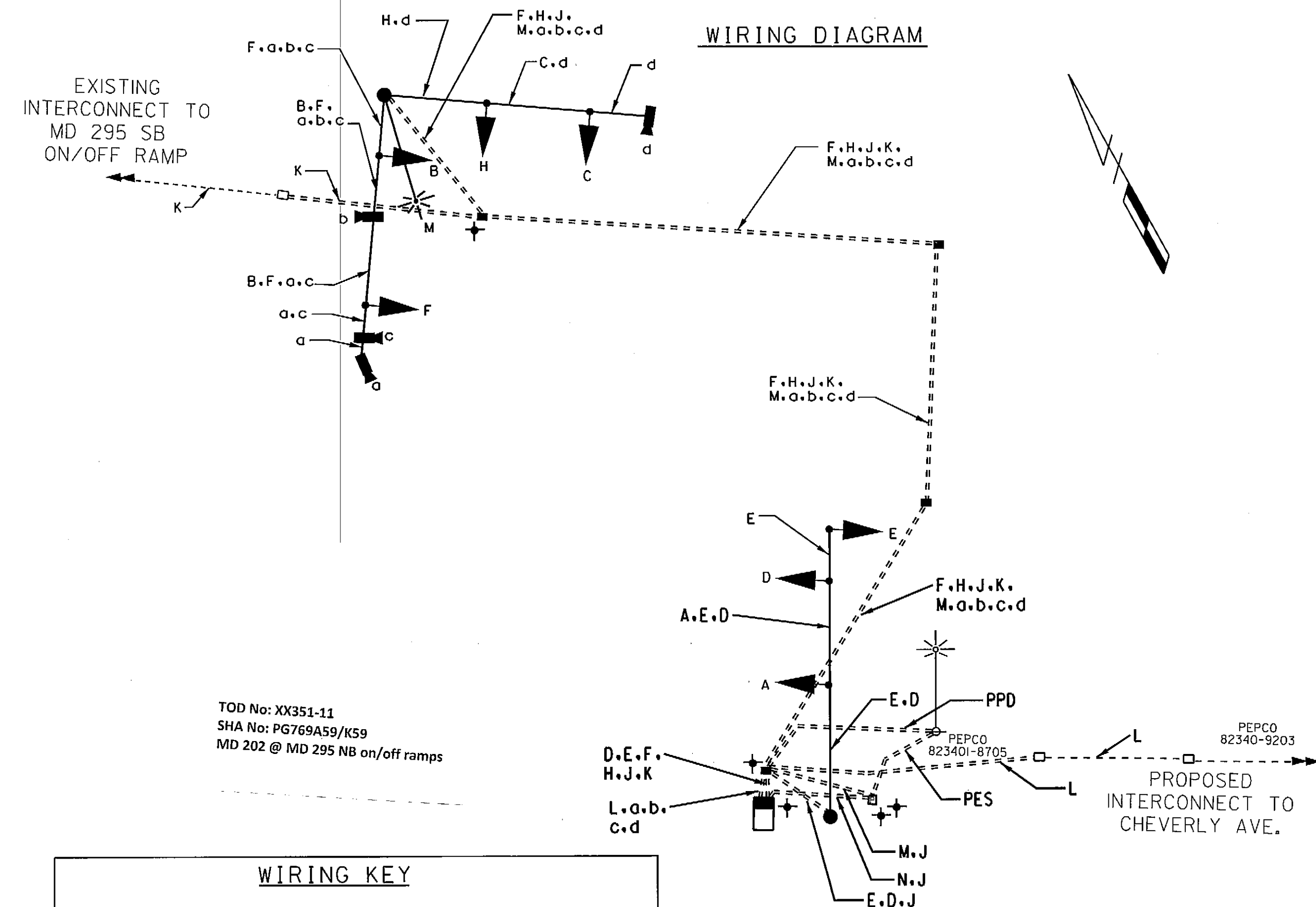
## EQUIPMENT LIST 'B'

### B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY THE CONTRACTOR.

ITEM NO.	DESCRIPTION	QUANTITY
1003	MAINTENANCE OF TRAFFIC	2 EA
2002	TEST PIT EXCAVATION	3 CY
5004	12" HEAT APPLIED WHITE PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKINGS	150 LF
5005	24" HEAT APPLIED WHITE PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKINGS	110 LF
5007	REMOVAL OF EXISTING PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKINGS	200 LF
6002	5" CONCRETE SIDEWALK	500 SF
8003	8" LED SIGNAL HEAD SECTION	3 EA
8004	ADJUST EXISTING HANDHOLE TO GRADE W/ COLLAR	1 EA
8006	ANY SIZE LIGHTING ARM ON SIGNAL POLE WITH 250 WATT HPS LAMP & LUMINAIRE	1 EA
8017	MAST ARM POLE & 70' MAST ARM ANY "T" DIMENSION	1 EA
8021	REMOVE & DISPOSE MATERIAL AND EQUIPMENT PER JOB	1 EA
8023	TWIN MAST ARM POLE & 50' /50' MAST ARM ANY "T" DIM.	1 EA
8025	VIDEO DETECTION CAMERA & CABLE	4 EA
8028	12 - PAIR COMMUNICATION CABLE, OVERHEAD/UNDERGROUND	600 LF
8030	ELECTRICAL CABLE - 1 CONDUCTOR (NO. 2/0 AWG)	240 LF
8031	DISCONNECT, PULL BACK & RE-ROUTE EXISTING CABLES	340 LF
8034	SCHEDULE 80 PVC CONDUIT UP TO 4" - SLOTTED	100 LF
8035	SCHEDULE 80 PVC CONDUIT UP TO 4" - TRENCHED	420 LF
8036	WOOD SIGN SUPPORTS UP TO 4" X 6"	92 LF
8037	DETECTABLE WARNING SURFACES	42 SF
8038	INSTALL OVERHEAD AND GROUND MOUNTED SIGNS INCLUDING HARDWARE	102 SF
8039	REMOVE AND REINSTALL DECORATIVE BRICK	31 SF
8040	NO. 6 AWG STRANDED BARE COPPER GROUND WIRE	500 LF
8042	METERED SERVICE PEDESTAL EMBEDDED (100 AMP)	1 EA
8045	CABLE 1-CONDUCTOR, NO. 8 AWG=THHN/THWN	90 LF
8046	FURNISH AND INSTALL ELECTRICAL HANDHOLE	5 EA
8050	12" LED VEHICULAR TRAFFIC SIGNAL HEAD SECTION	19 EA
8056	ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 AWG)	60 LF
8057	ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 AWG)	1300 LF
8058	ELECTRICAL CABLE - 2 CONDUCTOR (NO. 12 AWG)	300 LF
8065	INSTALL CONTROLLER AND CABINET - BASE MOUNTED	1 EA

## PHASE CHART

	1	2	3	4	5	6	7	
	R Y G	R Y G	R Y G	R Y G	R Y G	R Y G	R Y G	
Phase 2 & 5	R	R	◁G/G	◁G/G	G	R	R	↔
2 & 5 Change	R	R	◁Y/G	◁Y/G	G	R	R	↔
Phase 2 & 6	G	G	G	G	G	R	R	↔
2 & 6 Change	Y	Y	Y	Y	Y	R	R	↔
Phase 4	R	R	R	R	R	G	G	↑
4 Change	R	R	R	R	R	Y	Y	↑
Fashing Operation	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	FL/R	↔



## WIRING KEY

a.b.c.d	- VIDEO DETECTION CAMERA WITH 3 CONDUCTOR NO. 18 AWG LEAD-IN CABLE
A.B.C	- 5 CONDUCTOR NO. 14 AWG ELEC. CABLE
D.E.F.	- 7 CONDUCTOR NO. 14 AWG ELEC. CABLE
H	- NO. 6 AWG STRANDED BARE COPPER GROUND WIRE
J	- EXISTING INTERCONNECT CABLE TO BE PULLED-BACK; RE-ROUTE TO NEW CONTROLLER
K	- PROPOSED INTERCONNECT CABLE (SEE INTERCONNECT SHEET, SG-3)
L	- 2 CONDUCTOR NO. 12 AWG ELEC. CABLE
M	- 1 CONDUCTOR NO. 8 AWG=THHN/THWN ELEC. CABLE
N	- RE-DIRECT EXISTING ELECTRICAL SERVICE
PES	- PROPOSED PHONE DROP
PPD	- GROUND ROD (3/4" DIA. x 10' LENGTH)



STATE OF MARYLAND  
DEPARTMENT OF TRANSPORTATION  
STATE HIGHWAY ADMINISTRATION  
OFFICE OF TRAFFIC & SAFETY  
TRAFFIC ENGINEERING DESIGN DIVISION  
MD 202 (LANDOVER ROAD) AT  
MD 295 (BALT./WASH. PKWY) NB ON/OFF RAMP  
CHEVERLY, MD



## GENERAL INFORMATION SHEET

SCALE 1" = 20' ADVERTISED DATE, JUNE 14, 2010, CONTRACT NO. XX3515168

DESIGNED BY ENB COUNTY PRINCE GEORGE'S  
DRAWN BY ENB LOGMILE 1602013.60  
CHECKED BY MAR TMS NO. K-034  
F.A.P. NO. TOD NO.

TS NO. 4747 D-GI DRAWING SG-2 OF 3 SHEET NO. 2 OF 9

**M CENTURY**  
ENGINEERING  
CONSULTING ENGINEERS - PLANNERS  
10710 GILROY ROAD  
HUNT VALLEY, MD 21031  
Phone: (410) 823-8070 Fax: (410) 823-2184

Revision 'D' CEI # 26265.20

PLOTTED: 8/24/2010  
FILE: SFLB3